

GenCore version 5.1.3  
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protein - nucleic search, using frame-plus-P2n mode:

JobID: 16\_2003\_16\_59\_22, Search time: 17.1429 seconds  
 (without alignments) up to 447 Million cell updates/sec

Title: US-09-456-070-18

Perfect score: 24

Sequence: 1 KEEFL 5

Scoring table:

BLASTMF2	Xgapop	Xgapext	Ygapext
0.0	0.0	0.5	0.5
Ygapop	10.0	Ygapext	0.5
Fgapop	6.0	Fgapext	7.0
DgapP	6.0	Igapext	7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters:

882724

Minimum DB seq length: 0  
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0.8  
 Maximum Match 1.008  
 Listing first 45 summaries

```

  database : Issued_Patents_NA.* 
  1: /cgn2_6_ptodata/2/ina/6A_COMB_seq.* 
  2: /cgn2_6_ptodata/2/ina/6B_COMB_seq.* 
  3: /cgn2_6_ptodata/2/ina/6C_COMB_seq.* 
  4: /cgn2_6_ptodata/2/ina/6D_COMB_seq.* 
  5: /cgn2_6_ptodata/2/ina/6E_COMB_seq.* 
  6: /cgn2_6_ptodata/2/ina/6F_COMB_seq.* 

```

## SUMMARIES

Result No.	Score	Query length	Match length	DR	Description
1	24	160.0	20	4	US-09-657 481A-28
2	24	160.0	44	4	US-09-291-874-3
3	24	100.0	56	4	US-09-291-874-15
4	24	100.0	559	4	US-09-605-785-310
5	24	100.0	539	4	US-09-439-313-310
6	24	100.0	539	4	US-09-552-616A-210
7	24	100.0	539	4	US-09-232-149A-210
8	24	100.0	542	2	US-08-342-766A-17
9	24	100.0	728	4	US-08-896-164-53
10	24	100.0	990	1	US-08-410-167A-1
11	24	100.0	993	1	US-08-705-377-1
12	24	100.0	993	1	US-08-705-327-2

RESULT 1		ALIGNMENTS	
US 09-557-481A-28/C	Sequence 1	Sequence 3, Appli	Appli
Sequence 28, Application US 09657481A	Sequence 2	Sequence 1, Appli	Appli
Patent No. 6,256,601	Sequence 3	Sequence 1, Appli	Appli
GENERAL INFORMATION	Sequence 4	Sequence 1, Appli	Appli
APPLICANT	Sequence 5	Sequence 1, Appli	Appli
Brett P. Monia	Sequence 6	Sequence 1, Appli	Appli
	Sequence 7	Sequence 1, Appli	Appli
	Sequence 8	Sequence 1, Appli	Appli
	Sequence 9	Sequence 1, Appli	Appli
	Sequence 10	Sequence 1, Appli	Appli
	Sequence 11	Sequence 1, Appli	Appli
	Sequence 12	Sequence 1, Appli	Appli
	Sequence 13	Sequence 1, Appli	Appli
	Sequence 14	Sequence 1, Appli	Appli
	Sequence 15	Sequence 1, Appli	Appli
	Sequence 16	Sequence 1, Appli	Appli
	Sequence 17	Sequence 1, Appli	Appli
	Sequence 18	Sequence 1, Appli	Appli
	Sequence 19	Sequence 1, Appli	Appli
	Sequence 20	Sequence 1, Appli	Appli
	Sequence 21	Sequence 1, Appli	Appli
	Sequence 22	Sequence 1, Appli	Appli
	Sequence 23	Sequence 1, Appli	Appli
	Sequence 24	Sequence 1, Appli	Appli
	Sequence 25	Sequence 1, Appli	Appli
	Sequence 26	Sequence 1, Appli	Appli
	Sequence 27	Sequence 1, Appli	Appli
	Sequence 28	Sequence 1, Appli	Appli
	Sequence 29	Sequence 1, Appli	Appli
	Sequence 30	Sequence 1, Appli	Appli
	Sequence 31	Sequence 1, Appli	Appli
	Sequence 32	Sequence 1, Appli	Appli
	Sequence 33	Sequence 1, Appli	Appli
	Sequence 34	Sequence 1, Appli	Appli
	Sequence 35	Sequence 1, Appli	Appli
	Sequence 36	Sequence 1, Appli	Appli
	Sequence 37	Sequence 1, Appli	Appli
	Sequence 38	Sequence 1, Appli	Appli
	Sequence 39	Sequence 1, Appli	Appli
	Sequence 40	Sequence 1, Appli	Appli
	Sequence 41	Sequence 1, Appli	Appli
	Sequence 42	Sequence 1, Appli	Appli
	Sequence 43	Sequence 1, Appli	Appli
	Sequence 44	Sequence 1, Appli	Appli
	Sequence 45	Sequence 1, Appli	Appli

ALIGNMENT'S

RESULT 1  
US-69-457-481A-28/C  
Sequence-28, Application US/09657481A  
Patent No. 6,258,601  
GENERAL INFORMATION:  
APPLICANT: Brett P. Monia  
APPLICANT: Lex M. Cowert; ANTISENSE MC  
TITLE OF INVENTION: EXPRESSION  
FILE REFERENCE: PTS 0087  
CURRENT APPLICATION NUMBER: US/09-6551  
CURRENT FILING DATE: 2000-09-07  
NUMBER OF SEQ ID NOS: 93  
CROSS-REFERENCE: NO

); LENGTH: 20  
); TYPE: DNA  
); ORGANISM: Artificial Sequence  
); FEATURE:  
); OTHER INFORMATION: Antisense Oligonucleotide  
); US-09-657-481A-28

Alignment Scores:	
Query:	9.02
Score:	24.00
Percent Similarity:	139.39*
Best Local Similarity:	160.00*
Query Match:	100.00%
DB:	4
Length:	
Matches:	5
Insertions:	0
Mismatches:	0
Deletions:	0
Gaps:	0
US-09-856-070-18 (1-5) x US-09-657-491A-28 (1-20)	
Q:	1 LysGluGluLeuMet 5
Db:	17 AAAAGAGGTTGATG 3
RESULT: 2	

09 291 874 3  
Sequence 3, Application US/09291874

NUMBER OF SEQ ID NOS: 835  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO: 310  
 LENGTH: 539  
 TYPE: DNA  
 ORGANISM: Homo sapien  
 US-09-605-785-310

Alignment Scores:  
 Pred. No.: 320 Length: 539  
 Score: 24.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 4 DB: 0 Gaps: 0

US-09-856-070-18 (1-5) x US-09-605-785-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Xu, Jiangchun

: Patent No. 6329505  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Mitchell, Jennifer Lynn

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Reed, Steven G.

: APPLICANT: Ratios, Michael

: APPLICANT: Ringer, Gary

: APPLICANT: Retter, Mark

: APPLICANT: Sol, John

: APPLICANT: Day, Craig

: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

DIAGNOSIS OF PROSTATE CANCER AND METHODS FOR IMMUNOTHERAPY OF PROSTATE

FILE REFERENCE: 210121-427C9

CURRENT APPLICATION NUMBER: US-09-3939-313

CURRENT FILING DATE: 1999-11-12

NUMBER OF SEQ ID NOS: 575

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO: 310

LENGTH: 539

TYPE: DNA

ORGANISM: Homo sapien

US-09-439-313-310

NUMBER OF SEQ ID NOS: 835  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO: 310  
 LENGTH: 539  
 TYPE: DNA  
 ORGANISM: Homo sapien  
 US-09-605-785-310

Alignment Scores:  
 Pred. No.: 320 Length: 539  
 Score: 24.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 4 DB: 0 Gaps: 0

US-09-856-070-18 (1-5) x US-09-439-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Xu, Jiangchun

: Patent No. 6456111

: APPLICANT: Dillon, Davin C.

: APPLICANT: Mitchell, Jennifer Lynn

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Reed, Steven G.

: APPLICANT: Ratios, Michael

: APPLICANT: Ringer, Gary

: APPLICANT: Retter, Mark

: APPLICANT: Sol, John

: APPLICANT: Day, Craig

: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

DIAGNOSIS OF PROSTATE CANCER AND METHODS FOR IMMUNOTHERAPY OF PROSTATE

FILE REFERENCE: 210121-427C9

CURRENT APPLICATION NUMBER: US-09-232-149A

CURRENT FILING DATE: 1999-01-15

NUMBER OF SEQ ID NOS: 336

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO: 310

LENGTH: 539

TYPE: DNA

ORGANISM: Homo sapien

US-09-856-070-18 (1-5) x US-09-439-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Armour, John  
 : TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 6  
 US-09-432-616A-310  
 Sequence 310, Application US-09-352616A

GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.  
 : TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 7  
 US-09-432-149A-310  
 Sequence 310, Application US-09-2149A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: Patent No. 6456111

: APPLICANT: Mitchell, Jennifer Lynn

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Reed, Steven G.

: APPLICANT: Ratios, Michael

: APPLICANT: Ringer, Gary

: APPLICANT: Retter, Mark

: APPLICANT: Sol, John

: APPLICANT: Day, Craig

: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

DIAGNOSIS OF PROSTATE CANCER AND METHODS FOR IMMUNOTHERAPY OF PROSTATE

FILE REFERENCE: 210121-427C9

CURRENT APPLICATION NUMBER: US-09-232-149A

CURRENT FILING DATE: 1999-01-15

NUMBER OF SEQ ID NOS: 336

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO: 310

LENGTH: 539

TYPE: DNA

ORGANISM: Homo sapien

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 8  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 9  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 10  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 11  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 12  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 13  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 14  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 15  
 US-09-332-766A-17  
 Sequence 17, Application US-09-332-766A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 16  
 US-09-432-616A-310  
 Sequence 310, Application US-09-352616A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 17  
 US-09-432-616A-310  
 Sequence 310, Application US-09-352616A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

US-09-856-070-18 (1-5) x US-09-432-149A-310 (1-539)

Qy 1 LysGlugluLeuMet 5  
 Y GENERAL INFORMATION:  
 : APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

RESULT 18  
 US-09-432-616A-310  
 Sequence 310, Application US-09-352616A

GENERAL INFORMATION:  
 : APPLICANT: Dillon, Davin C.

: APPLICANT: Harlock, Susan Louise

: APPLICANT: Jiaqiang, Yuqiu

: APPLICANT: Jeffreys, Alec J.

: TITLE OF INVENTION: SIMPLE TANDEM REPEATS  
 : NUMBER OF SEQUENCES: 125

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN, L.L.P.  
 STREET: 1100 New York Avenue, N.W.  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3918

COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/332,766A  
 FILING DATE: 01-NOV-1994  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: GB 9326052.9  
 FILING DATE: 21-DEC-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: BIRD, Donald J.  
 PREGISTRATION NUMBER: 25,323  
 REFERENCE/DOCKET NUMBER: 2117211/M04/0434/GB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 861-3000  
 TELEFAX: (202) 862-0944  
 TELEX: 6714627 CUSH

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 591 base pairs  
 TYPE: nucleic acid  
 STRANDNESS: single  
 THEOLOGY: Linear  
 MOLECULE TYPE: DNA (genomic)  
 (08-332-766A-17)

Alignment Scores:

Alignment No.:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
1	354	24,00	100	0	0	0
2	354	100	100	0	0	0
3	354	100	100	0	0	0
4	354	100	100	0	0	0
5	354	100	100	0	0	0
6	354	100	100	0	0	0
7	354	100	100	0	0	0
8	354	100	100	0	0	0
9	354	100	100	0	0	0

Sequence 53, Application US/08896164

GENERAL INFORMATION:

APPLICANT: OHTA, Yuichi  
 TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE  
 WITH GASTRIC CANCER AND METHYL  
 DIAGNOSING; AND TREATING GASTR

NUMBER OF SEQUENCES: 87

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Felt & Lynch  
 STREET: 805 Third Avenue  
 CITY: New York City  
 STATE: New York  
 COUNTRY: USA  
 ZIP: 10022

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.50 inch, 1.44mb  
 OPERATING SYSTEM: PC-DOS  
 SOFTWARE: WORDperfect  
 CURRENT APPLICATION:

APPLICATION NUMBER: US/08/896,164  
 FILING DATE: JULY 17, 1997  
 CLASSIFICATION: 424  
 ATTORNEY/AGENT INFORMATION:  
 NAME: 6218521man D. Hanson  
 REFERENCE/DOCKET NUMBER: 30,946  
 REGISTRATION NUMBER: 1,010,549  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 688-9200  
 TELEFAX: (212) 638-3884  
 INFORMATION FOR SEQ ID NO: 53:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 728 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 US-08-896-164-53

Alignment Scores:  
 Freq. No.: 444 1.0  
 Score: 24.00 Ma  
 Percent Similarity: 100.00% CO  
 Best Local Similarity: 100.00% Mi  
 Query Match: 100.00% In  
 DH: 4 Ga

US-09-856-0761-18 (1-5) x US-08-896-164-53

Qy 1 LysGluGluLeuMet 5  
 1|||||1|||||1|||  
 1b 232 AAAGAGAAATTATG 246

RESULT 10  
 US-08-410-167A-1  
 Sequence 1, Application US/08410167A  
 Patent No. 5733273

GENERAL INFORMATION:  
 APPLICANT: TOKUZO NISHINO, Shinich  
 APPLICANT: Chikara OHTE, Chika ASA  
 TITLE OF INVENTION: Geranylgeranyl  
 NUMBER OF SEQUENCES: 4 Coding Therefor

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: One Broadway  
 CITY: New York  
 STATE: NY  
 COUNTRY: US  
 ZIP: 10006

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3+ Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS-DOS 6  
 SOFTWARE: Wordperfect 6.1 Windows

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/410,167  
 FILING DATE: 24-MAR-1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 NAME: Edward W. Greason  
 APPLICATION NUMBER: JP 6-53804  
 FILING DATE: 24-MAR-1994  
 APPLICATION NUMBER: JP 6-315572  
 FILING DATE: 25-NOV-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Edward W. Greason  
 REGISTRATION NUMBER: 18,918  
 REFERENCE/DOCKET NUMBER:  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 425-5288  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 990 base pairs

TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Sulfolobus acidocaldarius  
 STRAIN: ATCC 33909  
 FEATURE: CDS  
 LOCATION: 1-990  
 US-08-410-167A-1

Alignment Scores:  
 Pred. No.: 619 Length: 993  
 Score: 6.21 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 1 Gaps: 0

US-09-856-070-18 (1-5) x US-08-705-377-1 (1-993)

Qy 1 LysGluGluMet 5  
 Db 811 AAAGAGAGATTAATG 825

RESULT 11

US-08-705-377-2 Application US/08705377  
 Sequence 2, Application US/08705377  
 Patent No. 5807725  
 GENERAL INFORMATION:  
 APPLICANT: OHITO, Chikara, ASADA, Chika, OHNUMA, Shinichi,  
 APPLICANT: NISHINO, Tokuro, HIROKA, Kazuhiko, HEMMI, Hisashi  
 CORRESPONDENCE ADDRESS:  
 TITLE OF INVENTION: Long-Chain Prenyl Di phosphate Synthase  
 NUMBER OF SEQUENCES: 9  
 COPIES/END/E. APPROXSS.  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: 1025 Connecticut Avenue, N.W., Suite 600  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20036  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 inch Diskette  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Wordperfect 6.1 Windows  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/705, 377  
 FILING DATE: 29-AUG-1996  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: JP 7247043  
 FILING DATE: 01-SEP-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Toffenetti, Judith L.  
 REGISTRATION NUMBER: 39,048  
 REFERENCE/DOCKET NUMBER: 77670/442  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-429-1776  
 TELEFAX: 202-429-0796  
 INFORMATION FOR SEQ ID NO: 2:  
 MOLECULE TYPE: Mutated genomic DNA  
 LENGTH: 993  
 TYPE: Nucleic acid  
 STRANDEDNESS: Double  
 TOPOLOGY: Linear  
 ORIGINAL SOURCE:  
 ORGANISM: Sulfolobus acidocaldarius  
 US-08-705-377-1

Alignment Scores:  
 Pred. No.: 621 Length: 993  
 Score: 6.21 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 1 Gaps: 0

US-09-856-070-18 (1-5) x US-08-705-377-2 (1-993)

Qy 1 LysGluGluMet 5  
 Db 811 AAAGAGAGATTAATG 825

RESULT 13

US 08-705-377-3  
 Sequence 3, Application US/08705377  
 Patent No. 5807725  
 GENERAL INFORMATION:  
 APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi, NISHINO, Kazutake, HEMMI, Hisashi  
 TITLE OF INVENTION: Long-Chain Phosphatidyl Inositol Phosphate Synthase  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: 1025 Connecticut Avenue, N.W., Suite 600  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20016

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 inch Diskette  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: WordPerfect 6.1 Windows  
 CURRENT APPLICATION DATA:  
 FILING DATE: 29-AUG-1996  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 7247043  
 FILING DATE: 01-SEP-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Toffenetti, Judith L.  
 REGISTRATION NUMBER: 39,048  
 REFERENCE/DOCKET NUMBER: 77670/442  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-429-1776  
 TELEFAX: 202-429-0796  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 993  
 TYPE: Nucleic acid  
 STRANDEDNESS: Double strand  
 TOPOLOGY: Linear  
 MOLECULE TYPE: Mutated genomic DNA  
 US-08-705-377-4

Alignment Scores:  
 Pred. No.: 621 Length: 994  
 REFERENCE/DOCKET NUMBER: 77670/442 Matches: 5  
 TELECOMMUNICATION INFORMATION: Conservative: 0  
 TELEPHONE: 202-429-1776 Best Local Similarity: 100.00%  
 TELEFAX: 202-429-0796 Query Match: 100.00%  
 INFORMATION FOR SEQ ID NO: 4: DB: 1  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 993  
 TYPE: Nucleic acid  
 STRANDEDNESS: Double strand  
 TOPOLOGY: Linear  
 MOLECULE TYPE: Mutated genomic DNA  
 US-08-705-377-3

US-08-705-377-5  
 QY 1 LysGluGluLeuMet 5  
 Db 811 AAAGAGAAATTAAATG 825

RESULT 15  
 US-08-705-377-5  
 Sequence 5, Application US/08705377  
 Patent No. 5807725  
 GENERAL INFORMATION:  
 APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi, NISHINO, Kazutake, HEMMI, Hisashi  
 TITLE OF INVENTION: Long-Chain Phosphatidyl Inositol Phosphate Synthase  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: 1025 Connecticut Avenue, N.W., Suite 600  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20036

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 inch Diskette  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: WordPerfect 6.1 Windows  
 CURRENT APPLICATION DATA:  
 FILING DATE: 29-AUG-1996  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 7247043  
 FILING DATE: 01-SEP-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Toffenetti, Judith L.  
 REGISTRATION NUMBER: 39,048

US-08-705-377-6  
 QY 1 LysGluGluLeuMet 5  
 Db 811 AAAGAGAAATTAAATG 825

RESULT 14  
 US-08-705-377-4  
 Sequence 4, Application US/08705377  
 Patent No. 5807725  
 GENERAL INFORMATION:  
 APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi, NISHINO, Kazutake, HEMMI, Hisashi  
 TITLE OF INVENTION: Long-Chain Phosphatidyl Inositol Phosphate Synthase  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: 1025 Connecticut Avenue, N.W., Suite 600  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20036

REFERENCE/POCKET NUMBER: 77670/442  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-429-1776  
TELEFAX: 202-429-0796  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 993  
TYPE: Nucleic acid  
STRANDEDNESS: Double strand  
TOPOLOGY: linear  
MOLECULE TYPE: Mutated genomic DNA  
US-08-705-377-5

Alignment Scores:  
Pred. No.: 621 Length: 993  
Score: 24.00 Matches: 5  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 1 Gaps: 0

US-09-856-070-18 (1-5) x US-08-705-377-5 (1-993)

QY 1 LysGluGluLeu**Met** 5  
D<sub>b</sub> 811 AAAGAAGAAATTAAATG 825

Search completed: January 16, 2003, 21:41:23  
Job time: 19.1429 secs

